

## 10.0 ACRONYMS

°	degrees
°C	degrees Celsius
°F	degrees Fahrenheit
µg/kg	micrograms per kilogram
µg/m <sup>3</sup>	microgram per cubic meter
µPa	micropascals
µPa <sup>2</sup> /Hz	micro square Pascal per Hertz
AADT	annual average daily traffic
AAV	ambient air vaporizer
AB	Assembly Bill
ACOE	Army Corps of Engineers
ADS	Automatic Dependent Surveillance
ADT	average daily traffic
AIChE	American Institute of Chemical Engineers
ANS	Alaskan North Slope
API	American Petroleum Institute
AQCZ	Air Quality Compliance Zone
AQMP	Air Quality Management Plan
ASA	Applied Science Associates
ASBS	areas of special biological significance
Basin Plan	Water Quality Control Plan for the Santa Clara and Los Angeles Rivers
bbl	barrels
Bcfd	billion cubic feet per day
BHPB	BHP Billiton LNG International, Inc.
BLS	Bureau of Labor Statistics
BMP	Best Management Practices
BOD	biochemical oxygen demand
BOEMRE	Bureau of Ocean Energy Management, Regulation, and Enforcement
BPCD	barrels per cal
bpd	barrels per day
bph	barrels per hour
BPSD	barrels per stream day
bpy	barrels per year
BTU	British Thermal Unit
CAAQS	California Ambient Air Quality Standards
California Ocean Plan	Water Quality Control Plan for Ocean Waters of California
California SB 2040	Lempert-Kenne-Seastrand Oil Spill Prevention and Response Act
CALM	catenary anchor leg mooring
Caltrans	California Department of Transportation

CAP	Clean Air Plan
CARB	California Air Resources Board
CBM	conventional buoy mooring
CCAA	California Clear Air Act
CCC	California Coastal Commission
CCMP	Comprehensive Conservation and Management Plan
CCR	California Code of Regulations
CCW	Clean Coastal Waters
CDFG	California Department of Fish and Game
CEC	California Energy Commission
CEQA	California Environmental Quality Act
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act
CFC	chlorofluorocarbons
CFR	Code of Federal Regulations
CGS	California Geological Survey
CH <sub>4</sub>	methane
Chevron	Chevron Products Company
CHRIS	California Historical Resources Information System
CINMS	Channel Islands National Marine Sanctuary
cm	Centimeters
cm/s	centimeters per second
CME	Coastal and Marine Environments
CNDDB	California Natural Diversity Database
CNEL	Community Noise Equivalent Level
CNEI	community noise equivalent level
CNPS	California Native Plant Society
CO	Carbon monoxide
CO <sub>2</sub>	carbon dioxide
COD	chemical oxygen demand
COP	California Ocean Plan
COW	crude oil washing
CPFV	commercial passenger fishing vessel
CPL	Chevron Pipeline Company
CPUC	California Public Utilities Commission
CRHR	California Register of Historical Resources
CSLC	California State Lands Commission
CSTF	Contaminated Sediments Task Force
ct	count
CWA	Clean Water Act
dB	decibel
dBA	decibels, A-weighted

DDD	dichlorodiphenyldichloroethane
DDE	dichlorodiphenyldichloroethylene
DDT	dichlorodiphenyltrichloroethane
DO	dissolved oxygen
DOD	U. S. Department of Defense
DOE	Department of Energy
DOI	Declaration of Inspection
DoS	Declaration of Security
DOT	U.S. Department of Transportation
DPM	diesel particulate matter
DPR	Department of Parks and Recreation
DW	dry weight
DWT	dead weight tons
ECO	Environmental Cargo Officer
EEZ	Exclusive Economic Zone
EIR	Environmental Impact Report
EIS	Environmental Impact Statement
EPA	U. S. Environmental Protection Agency
ERL	effects-range low
ERM	effects-range median
ESA	Endangered Species Act
ESHA	Environmentally Sensitive Habitat Areas
ESI	Environmental Sensitivity Index
ESU	Evolutionarily Significant Unit
ETA	Estimated Time of Arrival
FCC	fluid catalytic cracker
FHWA	Federal Highway Administration
FRA	Federal Railroad Administration
FSO	facility safety officer
FSRU	floating storage and regasification unit
ft	foot
ft/s	feet per second
FWPCA	Federal Water Pollution Control Act
G/m <sup>2</sup>	Gallons per meter squared
g/m <sup>2</sup>	grams per square meter
gal	gallon
GHG	greenhouse gases
GIS	Geographic Information System
gpd	gallons per day
gpm	gallons per minute
GPS	global positioning system

## 10.0 Acronyms

---

GWP	global warming potential
H <sub>2</sub> S	Hydrogen sulfide
HAZOP	Hazards and Operability
HAZWOPER	Hazardous Waste Site Operations and Emergency Response
Heavy Crude Project	Chevron Products Company El Segundo Refiner Heavy Crude Project Final EIR
HHW	higher high water
HLW	higher low water
hp	horsepower
HRA	Health Risk Assessment
Hz	Hertz
IGS	inert gas system
IMO	International Maritime Organization
in	inch
IOU	investor-owned utilities
JWPCP	Joint Water Pollution Control Plant
kg	kilograms
kHz	kilohertz
km	kilometers
km/h	kilometers per hour
km <sup>2</sup>	square kilometers
kn	knots
kWh	kilowatt-hour
LA/LB	Los Angeles/Long Beach
LACDBH	Los Angeles County Department of Beaches and Harbors
LADWP	Los Angeles Department of Water and Power
LARWQCB	Los Angeles Regional Water Quality Control Board
LAX	Los Angeles International Airport
lb/day	pounds per day
lb/MWh	pounds per megawatt hour
lbs	pounds
LC	Lethal Concentration
LCP	Local Coastal Program
Ldn	Day-Night Average Sound Level
Leq	energy equivalent sound level
LHC	liquid hydrocarbon-
LHW	lower high water
LLW	lower low water
LNG	liquefied natural gas
LOS	level of service
LST	localized significance threshold
m	meters

M	magnitude
m/min	meters per minute
m/s	meters per second
m <sup>2</sup>	square meters
m <sup>3</sup>	Cubic meters
m <sup>3</sup> /sec	cubic meters per second
MARL	maximum allowable residue level
MARPOL 73/78	International Convention for the Prevention of Pollution from Ships in 1973 as modified by the Protocol of 1978
MATES	Multiple Air Toxics Exposure Study
MBTA	Migratory Bird Treaty Act
MDO	marine diesel oil
MDWT	million dead weight tonnage
MFD	Marine Facilities Division of the California State Lands Commission
mg	milligram
mg/kg	milligrams per kilogram
mg/L	milligrams per liter
mgd	million gallons per day
MGO	marine gas oil
mi <sup>2</sup>	square miles
MIS	median international standard
ml	Milliliters
MLLW	mean lower low water
MLPA	Marine Life Protection Act
MM	Mitigation Measure
mm	Millimeters
MM	mitigation measure
MMA	Marine Managed Areas
MMCRP	Mitigation Monitoring, Compliance, and Reporting Program
MMP	Mitigation Monitoring Program
MMPA	Marine Mammal Protection Act
MMRP	Mitigation Monitoring and Reporting Program
MMS	Minerals Management Services
MOTEMS	Marine Oil Terminal Engineering and Maintenance Standards
MOV	Motor Operated Vehicle
MPA	Marine Preservation Association
MPa	megapascals
MPA	marine protected areas
mPa.s	micropascals
mph	miles per hour
MPN	most probably number
MPO	Metropolitan Planning Organization

MSIS	Marine Safety Information System
MSL	mean sea level
MSRC	Marine Spill Response Corporation
MT	metric tons
MTBE	methyl tertiary butyl ether
MTO	Marine Terminal Operations
MTR	marine transportation-related
MWh	megawatt-hours
N	nitrogen
N <sub>2</sub> O	nitrous oxide
NAAQS	National Ambient Air Quality Standards
NDBC	National Data Buoy Center
NEPA	National Environmental Policy Act
NFP	Nearshore Fisheries Permit
nm	nautical miles
NMFS	National Marine Fisheries Service
NO <sub>2</sub>	nitrogen dioxide
NOAA	National Oceanic and Atmospheric Administration
NOD	Notice of Determination
NOP	Notice of Preparation
Nox	mono-nitrogen oxides NO and NO <sub>2</sub>
NPDES	National Pollution Discharge Elimination System
NPS	non-point source
NRDAM	Natural Resource Damage Assessment Model
NRHP	National Register of Historic Places
NSR	New Source Review
NWI	National Wetlands Inventory
O&G	oil and grease
O <sub>3</sub>	ozone
OCD	Offshore and Coastal Dispersion Model
OCIMF	Oil Companies International Marine Forum
OCS	outer continental shelf
OPA 90	Oil Pollution Act of 1990
OPR	Office of Planning and Research
OSC	on-scene coordinator
OSCP	Oil Spill Contingency Plan
OSPR	Office of Spill Prevention and Response
OSR	Oil Spill Response
OSSC	Oil Spill Service Center
PAH	polynuclear aromatic hydrocarbons
PCB	polychlorinated biphenyl

PCS	Permit Compliance System
PEIS	Programmatic Environmental Impact Statement
PFMC	Pacific Fisheries Management Council
ph	hydrogen-ion concentration
PHA	Process Hazards Analysis
PLEM	pipeline end manifold
PM <sub>10</sub>	10 microns in diameter
PM <sub>2.5</sub>	2.5 microns in diameter
POLA	Port of Los Angeles
POLB	Port of Long Beach
PPA	pressure point analysis
ppb	parts per billion
PPE	Personnel Protective Equipment
ppm	parts per million
ppt	parts per thousand
PRC	Public Resources Code
psi	pounds per square inch
psia	pounds per square inch absolute
psig	pounds per square inch gauge
PUC	Public Utilities Commission
RCRA	Resource Conservation and Recovery Act
RECLAIM	Regional Clean Air Incentives Market
REL	Reference exposure levels
RLPT	Refinery Lead Person Technician
ROI	region of influence
RPT	Refinery Process Technician
RSPA	Research and Special Programs Administration
RVP	Reid Vapor Pressure
RWQCB	Regional Water Quality Control Board
SALM	single anchor leg mooring
SB	Senate Bill
SCAB	South Coast Air Basin
SCAG	Southern California Association of Governments
SCAQMD	South Coast Air Quality Management District
SCB	Southern California Bight
SCCIC	South Central Coastal Information Center
SCCWRP	Southern California Coastal Water Research Project
SCE	Southern California Edison
SCGC	Southern California Gas Company
SECA	SO <sub>x</sub> Emission Control Areas
SES	Sound Energy Solutions, Inc.

## 10.0 Acronyms

---

SIMAP	Spill Impact Model Analysis Package
SIP	State Implementation Plan
SO <sub>2</sub>	sulfur dioxide
SOC	Statement of Overriding Considerations
SPCC	Spill Prevention, Control, and Countermeasures
SPM	single point mooring
SRA	source receptor area
SUPSALV	Supervisor of Salvage
SWPPP	Stormwater Pollution Prevention Plan
SWRCB	State Water Resources Control Board
TAC	toxic air contaminants
TBT	tributyltin
TMDL	total maximum daily load
TO	thermal oxidizer
TPIC	Terminal Person-In-Charge
tss	total suspended solids
TSS	Traffic Separation Scheme
ug/kg	micrograms per kilogram
ug/L	micrograms per liter
UHF	ultra high frequency
ULCC	ultra large crude carrier
um	micrometers
USCG	U.S. Coast Guard
USFWS	U.S. Fish and Wildlife Service
USGS	U.S. Geological Survey
UTL	upper tolerance limit
V/C	volume to capacity (ratio)
VAFB	Vandenburg Air Force Base
VCS	vapor control system
VHF	very high frequency
VLCC	very large crude carrier
VOC	volatile organic compound
VPIC	Vessel Person-In-Charge
VRS	vapor recovery system
VTIS	Vessel Traffic Information System
VTs	Vessel Traffic Service
ZCTA	Zip Code Tabulation Area
ZIP	Zone Improvement Plan
µg/kg	micrograms per kilogram
µg/l	microgram per liter



µm

microns